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Conference Abstract

Integrating Collector and Author Roles Across Specimen and Publication Datasets

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Abstract

This work builds on the outputs of a collector data-mining exercise applied to GBIF mobilised herbarium specimen metadata, which uses unsupervised learning (clustering) to identify collectors from minimal metadata associated with field collected specimens (the DarwinCore terms recordedBy, eventDate and recordNumber). Here, we outline methods to integrate these data-mined collector entities (large scale dataset, aggregated from multiple sources, created programatically) with a dataset of author entities from the International Plant Names Index (smaller scale, single source dataset, created via editorial management). The integration process asserts a generic "scientist" entity with activities in different stages of the species description process: collecting and name publication. We present techniques to investigate specialisations including content - taxa of study - and activity stages: examining if individuals focus on collecting and/or name publication. Finally, we discuss generalisations of this initially herbarium-focussed data mining and record linkage process to enable applications in a wider context, particularly in zoological datasets.

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